

Iowa Department of Natural Resources Underground Storage Tanks Section 502 East 9th Street Des Moines, IA 50319-0034

Secondary Containment Testing Report Form

This form is intended for use by UST Professionals performing periodic testing of UST secondary containment systems. Secondary containment systems must be liquid tight and must be inspected and tested every two years [567-135.3(9)"g"]. Use the appropriate pages of this form to report results for all components tested. The completed form, written test procedures, and printouts from tests (if applicable), should be provided to the facility owner/operator and available for review by DNR and compliance inspectors.

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1. FACILITY INFORMATION																					
Facility Name:	Registration No.																				
Contact:												Phone:									
Address:																					
City:											S	tate:			ZIP	:					
2. TESTING CONTRACTOR INFO	RMATIO	ON																			
Company Name:													Date of Testir	ng:							
Technician Conducting Test																					
License Type:									Li	cense	Nun	nber:									
MANUFACTURER TRAINING																					
Manufacturer								Com	po	nent(s)				D	ate	Tra ع	inin	g Exp	ires	5
3. SUMMARY OF TEST RESULT	S																				
Component		Pas	ss	Fa	il	Not		Rep				Compo	nent	Pa	Pass Fail				Vot		epairs
Component			7	-	_	Teste	d	Ma	de			Comp			7		"	Te	ested	N	/lade
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If hydrostatic testing was p	orform		dag	crib	<u>-</u> ω	hat w	/25	dor	- N	ıith th	10 W/2	tor afto	r completion of	tost	<u> </u>						
in Hydrostatic testing was p	CITOIII	icu,	ues	CIID	C VV	riat w	as	uoi	ic v	/1011 01	ic we	iter arte	r completion of	test	٥.						
CERTIFICATION OF TECHNICIAN RESPONSIBLE FOR CONDUCTING THIS TESTING To the best of my knowledge, the facts stated in this document are accurate and in full compliance with legal requirements																					
i o tile vest of my knowled	ge, th	e ja	CLS.	stati	ea I	iii this	a	ocur	ner	ıı are	accu	ı u te an	и т јон сотрн	urice	WITI	ıle	yui r	equ	ııem	ent:	>
Technician's Signature:													Date:							-	

4. TANK ANNULAR TESTING							
Test Method Developed By:	Tank Manufactu	rer Industry Sta	andard Profession	nal Engineer			
	Other (Specify):	_					
Test Method Used:	Pressure	☐Vacuum	☐ Hydrosta	tic			
	Other (Specify):		le : .s				
Test Equipment Used:	Equipment Resolution:						
	Tank #	Tank #	Tank #	Tank #			
Tank Capacity:							
Tank Material:							
Tank Manufacturer:							
Product Stored:							
Wait time between applying pressure/vacuum/water and starting test:							
Test Start Time:							
Initial Reading (R _I):							
Test End Time:							
Final Reading (R _F):							
Test Duration:							
Change in Reading (R _F -R _I):							
Pass/Fail Threshold or Criteria:							
TEST RESULTS:							
Was sensor removed for testing?	☐Yes ☐No ☐NA	☐Yes ☐No ☐NA	☐Yes ☐No ☐NA	Yes No NA			
Was sensor properly replaced and verified functional after testing?	☐Yes ☐No ☐NA	☐Yes ☐No ☐NA	☐Yes ☐No ☐NA	☐Yes ☐No ☐NA			
COMMENTS— (include information of	on renairs made prior to te	estina and recommended	d follow-un for failed test	s)			
COMMENTS (metode injormation e	on repairs made prior to to	esting, and recommended	i jonow op jor junea test	5)			

5. SECONDARY PIPE TESTING							
Test Method Developed By:	Piping Manufa	acturer Industr	y Standard Prof	essional Engineer			
	Other (Specify	y):					
Test Method Used:	Pressure	□Vacuum	n 🔲 Hyd	rostatic			
	Other (Specify	y):					
Test Equipment Used:	Equipment Resolution:						
	Piping Run #	Piping Run #	Piping Run #	Piping Run #			
Piping Material:							
Piping Manufacturer:							
Piping Diameter:							
Length of Piping Run:							
Product Stored:							
Method and location of							
piping-run isolation:							
Wait time between applying							
pressure/vacuum/water and							
starting test: Test Start Time:							
Initial Reading (R _I): Test End Time:							
Final Reading (R _F):							
Test Duration:							
Change in Reading (R _F -R _I):							
Pass/Fail Threshold or Criteria:							
TEST RESULTS:	Pass Fail	Pass Fail	Pass Fail	Pass Fail			
COMMENTS — (include informa	tion on repairs made prior	to testing, and recommer	nded follow-up for failed t	ests)			

6. PIPING SUMP TESTING					
Test Method Developed By:	Sump Manufactur	er 🔲 Industry Sta	andard Professional Engineer		
	Other (Specify):				
Test Method Used:	Pressure	☐ Vacuum	☐ Hydrost	atic	
	Other (Specify):				
Test Equipment Used:			Equipment Resolution:		
	Sump #	Sump #	Sump #	Sump #	
Sump Diameter:	-	r	r r		
Sump Depth:					
Sump Material:					
Height from Tank Top to Top of					
Highest Piping Penetration:					
Height from Tank Top to Lowest					
Electrical Penetration:					
Condition of sump prior to testing:					
Does turbine shut down when					
sump sensor detects liquid (both product and water)?*	Yes No NA	Yes No NA	☐Yes ☐No ☐NA	Yes No NA	
Turbine shutdown response time					
Wait time between applying					
pressure/vacuum/water and					
starting test:					
Test Start Time:					
Initial Reading (R _I):					
Test End Time:					
Final Reading (R _F):					
Test Duration:					
Change in Reading (R _F -R _I):					
Pass/Fail Threshold or Criteria:					
TEST RESULTS:					
Is there a liquid phase sensor in					
the sump?	Yes No NA	Yes No NA	☐Yes ☐No ☐NA	☐Yes ☐No ☐NA	
Does the sensor alarm when					
either product or water is detected?	Yes No NA	Yes No NA	Yes No NA	Yes No NA	
Is the alarm operational?	☐Yes ☐No ☐NA	☐Yes ☐No ☐NA	Yes No NA	☐Yes ☐No ☐NA	
Is the sensor located in the lowest	☐Yes ☐No ☐NA	☐Yes ☐No ☐NA	☐Yes ☐No ☐NA	☐Yes ☐No ☐NA	
part of the sump?			+=-=-		
Was sensor removed for testing?	YesNoNA	☐Yes ☐No ☐NA	☐Yes ☐No ☐NA	☐Yes ☐No ☐NA	
Was sensor properly replaced and verified functional after testing?	☐Yes ☐No ☐NA	☐Yes ☐No ☐NA	☐Yes ☐No ☐NA	☐Yes ☐No ☐NA	
COMMENTS — (include information o	n repairs made prior to te	estina, and recommended	d follow-up for failed tests	5)	
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7. UNDER-DISPENSER CONTAINMENT (UDC) TESTING							
Test Method Developed By:	UDC Manufacture	r Industry St	andard Professi	onal Engineer			
	Other (Specify):						
Test Method Used:	Pressure	Vacuum	Hydrost	atic			
	Other (Specify):						
Test Equipment Used:		1	Equipment Resolution:				
	UDC #	UDC #	UDC#	UDC#			
UDC Manufacturer:			020				
UDC Material:							
UDC Depth:							
Height from UDC Bottom to Top							
of Highest Piping Penetration:							
Height from UDC Bottom to							
Lowest Electrical Penetration:							
Condition of UDC prior to testing:							
Does turbine shut down when							
UDC sensor detects liquid (both	☐Yes ☐No ☐NA	☐Yes ☐No ☐NA	☐Yes ☐No ☐NA	☐Yes ☐No ☐NA			
product and water)?							
Turbine shutdown response time							
Wait time between applying							
pressure/vacuum/water and							
starting test							
Test Start Time:							
Initial Reading (R _I):							
Test End Time:							
Final Reading (R _F):							
Test Duration:							
Change in Reading (R _F -R _I):							
Pass/Fail Threshold or Criteria:							
TEST RESULTS:							
Is there a sensor in the sump?	Yes No NA	Yes No NA	Yes No NA	Yes No NA			
Does the sensor alarm when							
either product or water is	│	│	☐Yes ☐No ☐NA	☐Yes ☐No ☐NA			
detected? Is the alarm operational?	☐Yes ☐No ☐NA	☐Yes ☐No ☐NA	Yes No NA	☐Yes ☐No ☐NA			
Is the sensor located in the lowest							
part of the sump?	Yes No NA	Yes No NA	☐Yes ☐No ☐NA	☐Yes ☐No ☐NA			
Was sensor removed for testing?	☐Yes ☐No ☐NA	☐Yes ☐No ☐NA	Yes No NA	☐Yes ☐No ☐NA			
Was sensor properly replaced and	Yes No NA	☐Yes ☐No ☐NA	☐Yes ☐No ☐NA	☐Yes ☐No ☐NA			
verified functional after testing?							
COMMENTS — (include information on repairs made prior to testing, and recommended follow-up for failed tests)							

8. TANK TOP SUMP TESTING				
Facility is Not Equipped With Fill R	iser Containment Sumps	5 <u> </u>		
Fill Riser Containment Sumps are I	Present, but were Not Te	ested		
Test Method Developed By:	Sump Manufacture		ndard Profession	onal Engineer
resemented beveloped by:	Other (Specify):	maosa, y stan		mai Engineer
T				
Test Method Used:	Pressure	☐ Vacuum	☐Hydrosta	itic
	Other (Specify):			
Test Equipment Used:			Equipment Resolution:	
	Fill Sump #	Fill Sump #	Fill Sump #	Fill Sump #
Sump Diameter:	Tim Semp #	Tim Somp #	7 m 30mp #	i iii Soiiip ii
Sump Depth:				
Height from Tank Top to Top of				
Highest Piping Penetration:				
Height from Tank Top to Lowest				
Electrical Penetration:				
Condition of sump prior to				
testing:				
Sump Material:				
Wait time between applying				
pressure/vacuum/water and				
starting test:				
Test Start Time:				
Initial Reading (R _I):				
Test End Time:				
Final Reading (R _F):				
Test Duration:				
Change in Reading (R _F -R _I):				
Pass/Fail Threshold or Criteria:				
TEST RESULTS:				
Is there a sensor in the sump?	Yes No NA	Yes No NA	Yes No NA	Yes No NA
Does the sensor alarm when				
either product or water is	Yes No NA	Yes No NA	Yes No NA	☐Yes ☐No ☐NA
detected?				
Was sensor removed for	☐Yes ☐No ☐NA	☐Yes ☐No ☐NA	☐Yes ☐No ☐NA	☐Yes ☐No ☐NA
testing?				
Was sensor properly replaced				
and verified functional after	Yes No NA	Yes No NA	Yes No NA	☐Yes ☐No ☐NA
testing?				
	•	•	•	
COMMENTS – (include information	n on repairs made prior to	testing, and recommend	led follow-un for failed te	ests)
	spans made prior to		jonon op joi janea te	/

9. SPILL BUCKET TESTING				
This form is intended for use tight. The completed form she inspectors.				
FACILITY INFORMATION				
Facility Name:			Date of Testing:	
Facility Address:				
Facility Contact:		Phone):	
Date Local Agency Was Notif	fied of Testing :			
Name of Local Agency Inspec	ctor (if present during testin	g):		
TESTING CONTRACTOR INFORM	MATION			
Company Name:				
Technician Conducting Test:				
Credentials: CSLB Con	tractor 🔲 ICC Service 🛚	Гесh. 🔲 SWRCB Tank Т	ester Other (<i>Specify</i>	<i>'</i>)
License Number(s):				
SPILL BUCKET TESTING INFORM	IATION			
Test Method Used:	Hydrostatic	Vacuum	Other (Specify):	
Test Equipment Used:			Equipment Resolution:	
Identify Spill Bucket (By Tank Number, Stored Product, etc.)	TANK 1	TANK 2	TANK 3	TANK 4
Bucket Installation Type:	☐ Direct Bury ☐ Contained in Sump	☐ Direct Bury ☐ Contained in Sump	☐ Direct Bury ☐ Contained in Sump	☐ Direct Bury☐ Contained in Sump
Bucket Diameter:				
Bucket Depth:				
Wait time between applying vacuum/water and start of test:				
Test Start Time (T _I):				
Initial Reading (R _I):				
Test End Time (T _F):				
Final Reading (R _F):				
Test Duration (T _F – T _I):				
Change in Reading (R _F - R _I):				
Pass/Fail Threshold or				
Criteria:				
TEST RESULTS:	Pass Fail	Pass Fail	Pass Fail	Pass Fail
COMMENTS — (include inform	ation on repairs made prior	to testing, and recommend	ed follow-up for failed tests	5)

CERTIFICATION OF TECHNICIAN RESPONSIBLE FOR CONDUCTING THIS TESTING

I hereby certify that all the information contained in this report is true, accurate, and in full compliance with legal requirements.

Technic	Technician's Signature:							
10. RESULTS	S OF VACUUM / PRESSURE MONITORING EQUIPMENT TESTING (CONTINUOUS INTERSTITIAL LINE / TANK MONITORING D)							
	ould be used to document testing and servicing of vacuum and pressure interstitial sensors. Interstitial sensing							
	be tested at least every two years for proper function [567—135.3(9)"g"(2)]. A copy of this form must be provided to							
Manufacture	rem owner/operator. This form must be available for review by DNR and compliance inspectors. er: System Type: Pressure Vacuum							
SENSOR ID	System Type:							
	Component(s) Monitored by this Sensor:							
	Sensor Functionality Test Result: Pass Fail Interstitial Communication Test Result: Pass Fail							
	Component(s) Monitored by this Sensor:							
	Sensor Functionality Test Result: Pass Fail Interstitial Communication Test Result: Pass Fail							
	Component(s) Monitored by this Sensor:							
	Sensor Functionality Test Result: Pass Fail Interstitial Communication Test Result: Pass Fail							
	Component(s) Monitored by this Sensor:							
	Sensor Functionality Test Result: Pass Fail Interstitial Communication Test Result: Pass Fail							
	Component(s) Monitored by this Sensor:							
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	Component(s) Monitored by this Sensor:							
	Sensor Functionality Test Result: Pass Fail Interstitial Communication Test Result: Pass Fail							
	Component(s) Monitored by this Sensor:							
	Sensor Functionality Test Result: Pass Fail Interstitial Communication Test Result: Pass Fail							
	Component(s) Monitored by this Sensor:							
	Sensor Functionality Test Result: Pass Fail Interstitial Communication Test Result: Pass Fail							
	terstitial communication verified? oduced at Far End of Interstitial Space Gauge Visual Inspection Other (Describe Comments Below)							
Vacuum was	Vacuum was restored to operating levels in all interstitial spaces: Yes No (If no, describe in comments below)							

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COMMENTS:

NOTE: If the sensor successfully detects a simulated vacuum/pressure leak introduced in the interstitial space at the farthest point from the sensor, vacuum/pressure has been demonstrated to be communicating throughout the interstitial space.